

DIETHYLENETRIAMINEPENTAACETIC ACID DERIVATIVE AND USE THEREOF

Patent number: JP2085239
Publication date: 1990-03-26
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Classification:
- international: A61K43/00; A61K49/02; C07C237/10; C07K15/12; C07K15/22; G01N33/50; G01N33/534
- european:
Application number: JP19890145994 19890607
Priority number(s): JP19880139885 19880607; JP19880139886 19880607; JP19890145994 19890607

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Abstract of JP2085239

PURPOSE:To obtain a carrier for radioisotopes, consisting of a diethylenetriaminepentaacetic acid (DTPA) derivative and useful in diagnose and treatment using the radioisotopes. **CONSTITUTION:**A radioactive diagnostic or treating agent, obtained by adding an aqueous solution of a water-soluble compound (e.g., halide) of a radioactive metal to an aqueous solution of a compound expressed by formula I (n is 2-10; A' is bifunctional group formed by binding both reactive groups of a crosslinking agent; B is residue of a polypeptide compound) or salt thereof and having the metal captured and bound to carboxyl groups and/or amino groups present in parts derived from the DTPA. The compound expressed by formula I is obtained by reacting the DTPA with a diamine expressed by the formula $H_2NC_nH_{2n}NH_2$, further reacting the resultant DTPA amide derivative expressed by formula II with a crosslinking agent and then reacting the formed compound expressed by formula III (A is monofunctional group formed by binding the crosslinking agent to either of reactive groups) with a polypeptide. Compounds expressed by formulas IV-VI, etc., are preferred as the above- mentioned crosslinking agent.

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